

# CHAPTER 2

## SITE FURNISHINGS

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Picnic Table | ADA  
Picnic Table | Standard  
Receptacle | Ash/Coal  
Receptacle | Recycling  
Receptacle | Trash  
Wheel Stop

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# BASE PLATES

## PURPOSE

Ball field base equipment shall be provided at diamond fields as needed for play.

## GENERAL INFORMATION

Base plate dimensions shall comply with National Federation of State High Schools or other governing authority.

Base plates shall be anchored in ground.

Related Standards: Infield Mix, Field Diagram | Baseball, Field Diagram | Softball.

## MATERIALS AND FINISH

Plate color shall be white with black trim.

Double first bases shall include a white base and an orange outside base.

Plates shall be manufactured from durable materials such as rubber, reinforced steel and polyurethane.

Materials shall be rated for exterior use and all-weather play.

## FEATURES

Home plate shall have a rubber waffle style interior. Plate shall be waterproof with a non-skid exterior surface.

Pitching rubber shall be four-way, adult size with inner support tubing.

Base plates shall be progressive release.

Base anchors and plugs shall be easily replaceable.

## INSTALLATION

Locate plates, pitching rubbers and bases in compliance with field layouts.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Base plates are anticipated to require replacement after 2 years of normal and ordinary use, and annually for heavily programmed fields.



Base plate



Pitching rubber

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# BASKETBALL GOAL SYSTEMS

## PURPOSE

Competition style, heavy duty backstops shall be provided at outdoor basketball facilities.

## GENERAL INFORMATION

Post systems shall comply with National Collegiate Athletic Association regulations or other governing authority.

Related Standards: Court Diagram|Basketball, Court Surfacing.

## MATERIALS AND FINISH

Upright posts and supports shall be 6 inches minimum square structural steel tubing with ¼ inch thick walls.

Steel components shall have a double powder coat finish. Color shall be black.

Square backboard shall be perforated steel and include acrylic official perimeter and target area markings.

Goals shall be a double ⅝ inch diameter solid steel rim, with a continuous net attachment system.

Nets shall be heavy duty, weather resistant nylon fiber. Color shall be white.

## FEATURES

Backstop shall provide an extension inside the baseline. The backboard shall be 4 feet inside the baseline and the rim shall be 10 feet above the playing surface.

Post and backboard padding shall be installed when upright posts are located on or within the lined playing surface.

## INSTALLATION

Install posts consistent with manufacturer's recommendations. Position backstop consistent with NCAA standards.

Post foundation shall be flush to adjacent grade. Top of footing shall be sloped to shed water.

Wind loading design shall comply with American Society of Civil Engineers (ASCE) 7-98.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

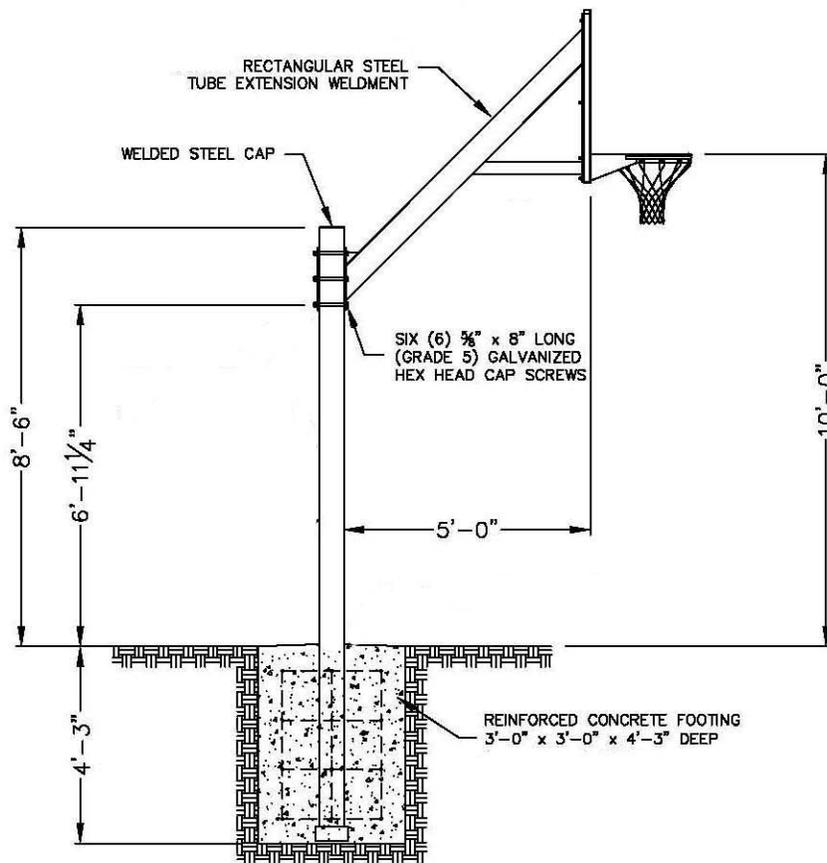
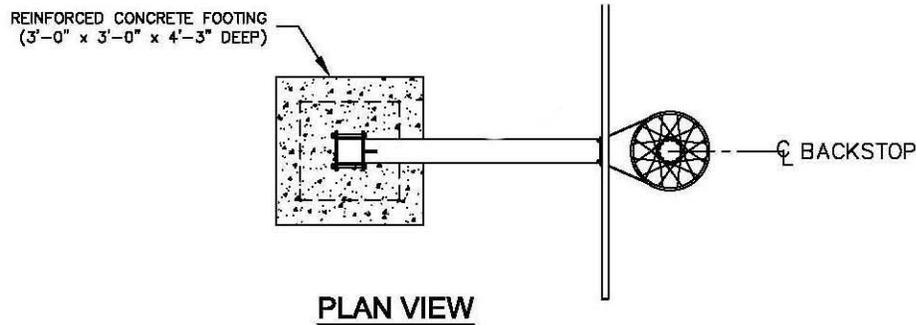
Basketball Goal Systems are anticipated to require replacement after 10 years of normal and ordinary use.

Nets are anticipated to require annual replacement with normal and ordinary use.



Basketball goal

# BASKETBALL GOAL SYSTEMS



Basketball goal (1)

Not to scale

## IMAGE FOOTNOTES

(1) <http://www.porterathletic.com/Product.aspx?ID=72>

## PURPOSE

Foul poles shall be utilized to identify play/foul territory on diamond ball fields.

## GENERAL INFORMATION

Foul poles shall comply with National Collegiate Athletic Association standards, Little League International regulations, or other governing authority.

Poles greater than 15 feet vertical dimension from finished grade require a Special Use Permit.

Related Standards: Track/Warning Track Surfacing, Field Diagram | Baseball, Field Diagram | Softball, Signs, Fence | Chain Link.

## MATERIALS AND FINISH

Poles shall be 3 ½ inches minimum to 6 inches maximum outside diameter, galvanized steel pipe with powder coat finish.

Color shall be yellow, PMS 113 or similar.

Foul Pole height shall be determined by ball field needs. Standard height is 15 feet from adjacent finish grade.

Wing panels shall be 18 inch horizontal width and 15 feet vertical height. Panels shall be 11 gauge expanded and flattened ¾ inch steel fabric.

## FEATURES

Pole heights can be 12 feet, 15 feet, 30 feet and 40 feet from adjacent grade with changes to pole diameter and wing panels dimensions.

## INSTALLATION

Install separate posts in-ground when existing fence posts cannot be used.

Pole shall be aligned with foul line and in line with outfield fence. Pole shall be 6 inch diameter minimum and integral to outfield fence where possible.

Pole foundation shall be designed to accommodate IBC Wind loading requirements.

Top of pole foundation shall be flush to adjacent grade. Top of footing shall be sloped to shed water.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Foul Poles are anticipated to require replacement after 30 years of normal and ordinary use.



Foul pole located external to outfield fence

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# GOALS FOR FIELD HOCKEY

## PURPOSE

Field hockey goals shall be provided for a variety of age groups including youth and adult.

## GENERAL INFORMATION

Goal construction shall comply with the National Federation of State High Schools, National Collegiate Athletic Association regulations, or other governing authority.

Goals shall be removable, stored on-site and secured in a protected area.

Related Standards: Synthetic Infill Turf Systems, Field Diagram | Field Hockey.

## MATERIALS AND FINISH

Goals shall be reinforced, unitized or welded for stability.

Integral nets shall be weather resistant, heavy duty nylon cord or webbing.

Goal crossbars and uprights shall be constructed from heavy wall aluminum tubing with smooth welds, joints and corners. Tubing shall be 2 inches by 1 inch minimum. Backstays and stabilizing bars shall be galvanized steel and 1 3/8 inch minimum outside diameter.

Open tube bottoms shall not be permitted.

Frames shall be white in color.

Nets and bottom boards shall be black in color.

## FEATURES

Goals shall be portable with wheel transport systems.

## INSTALLATION

Goals shall be installed with tie down stakes for natural turf fields.

Goals on synthetic infill turf systems shall be weighted with an anchoring system that does not puncture the turf surface.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Goals are anticipated to require replacement after 8 years of normal and ordinary use.



Field hockey goal (1)

## IMAGE FOOTNOTES

(1) [http://www.sportsfieldspecialties.com/index.php?option=com\\_content&view=article&id=51&Itemid=143](http://www.sportsfieldspecialties.com/index.php?option=com_content&view=article&id=51&Itemid=143)

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# GOALS FOR LACROSSE

## PURPOSE

Lacrosse goals shall be provided for a variety of age groups including youth and adult.

## GENERAL INFORMATION

Goal construction shall comply with the National Federation of State High Schools, National Collegiate Athletic Association, or other governing authority.

Goals shall be removable, stored on-site and secured in a protected area.

Related Standards: Synthetic Infill Turf Systems, Field Diagram | Lacrosse Girls, Field Diagram | Lacrosse Boys.

## MATERIALS AND FINISH

Goals shall be one piece, reinforced, unitized or welded for stability.

Nets shall be 4mm, weather resistant, heavy duty nylon cord or webbing.

Goal frame shall be constructed from Schedule 40 steel tubing with smooth welds, joints and corners. Frames shall be 1.9 inches outside diameter. Goal dimensions shall be 6 feet vertical height by 6 feet horizontal width by 7 feet deep.

Back base bars shall be constructed from 4 inch wide,  $\frac{3}{8}$  inch thick flat steel bar with lacing bar.

Open tube bottoms shall not be permitted.

Nets shall be white in color.

Frames shall be orange in color.

## INSTALLATION

Goals shall be installed with tie down stakes for natural turf fields.

Goals on synthetic infill turf systems shall be weighted with an anchoring system that does not puncture the turf surface.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Goals are anticipated to require replacement after 8 years of normal and ordinary use.



Lacrosse goal (1)

## IMAGE FOOTNOTES

(1) [http://www.sportsfieldspecialties.com/index.php?option=com\\_content&view=article&id=50&Itemid=144](http://www.sportsfieldspecialties.com/index.php?option=com_content&view=article&id=50&Itemid=144)

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# GOALS FOR SOCCER

## PURPOSE

Soccer goals shall be provided for a variety of age groups including youth and adult.

## GENERAL INFORMATION

Goal construction shall comply with the National Federation of State High Schools, National Collegiate Athletic Association regulations, or other governing authority.

Goal dimensions will vary according to play level, and shall comply with the National Federation of State High Schools, National Collegiate Athletic Association regulations, or other governing authority.

Goals shall be removable, stored on-site and secured in a protected area.

Related Standards: Synthetic Infill Turf System, Field Diagram | Soccer.

## MATERIALS AND FINISH

Goals shall be one piece, reinforced, unitized or welded for stability.

Nets shall be 4mm, hexagonal or square, weather resistant, heavy duty nylon cord or webbing.

Goals shall be constructed from heavy wall aluminum tubing with smooth welds, joints and corners. Goal frame tubing shall be 4 inch outside diameter.

Open tube bottoms shall not be permitted.

Net and frames shall be white in color.

## FEATURES

Goals shall be portable with wheel transport systems.

Adult goals shall be 8 feet vertical height and 24 feet wide. Goals shall be 5 feet deep at the top and 10 feet deep at the bottom.

Youth goals shall be 6 feet vertical height and 18 feet wide. Goals shall be 4 feet deep at the top and 6 feet deep at the bottom.

## INSTALLATION

Goals shall be installed with tie down stakes for natural turf fields.

Goals on synthetic infill turf systems shall be weighted with an anchoring system that does not puncture the turf surface.

## LIFE CYCLE EXPECTATIONS

A 5 year minimum warranty is required.

Goals are anticipated to require replacement after 8 years of normal and ordinary use.



Soccer goal

Intentionally Blank

# TENNIS NET SYSTEMS

## PURPOSE

Regulation tennis net systems shall be provided at outdoor tennis facilities.

## GENERAL INFORMATION

Regulation nets shall comply with United States Tennis Association standards or other governing authority.

Related Standards: Court Surfacing, Court Diagram | Tennis, Signs.

## MATERIALS AND FINISH

Net posts shall be 3 ½ inches minimum aluminum or galvanized steel with green powder coat finish with caps.

Net fabric shall be weather resistant No. 36 nylon. Nets shall have a galvanized top cable with a white headband. Protective net edging shall be provided at bottom and ends.

Center net straps shall be included.



Tennis net system

## FEATURES

Net tensioning reel shall be vandal resistant. Reel shall be heavy duty with lubrication impregnated parts and heat pinioned gears. Wheel handle shall be concealed or removable.

Center net anchors shall be provided.

Net posts shall be installed on top of piers as determined by soil conditions.

## INSTALLATION

Posts shall be installed in ground prior to final surface installation and court lining.

Post layout shall comply with USTA athletic standards.

Top of post foundation shall be flush with final surface. Top of footing shall be sloped to shed water. Concrete net post footers shall be 1 foot-6 inches diameter and 3 feet vertical depth minimum.

Center net anchors shall be set in 1 foot by 1 foot horizontal dimensions and 1 foot minimum vertical depth concrete footings.

## LIFE CYCLE EXPECTATIONS

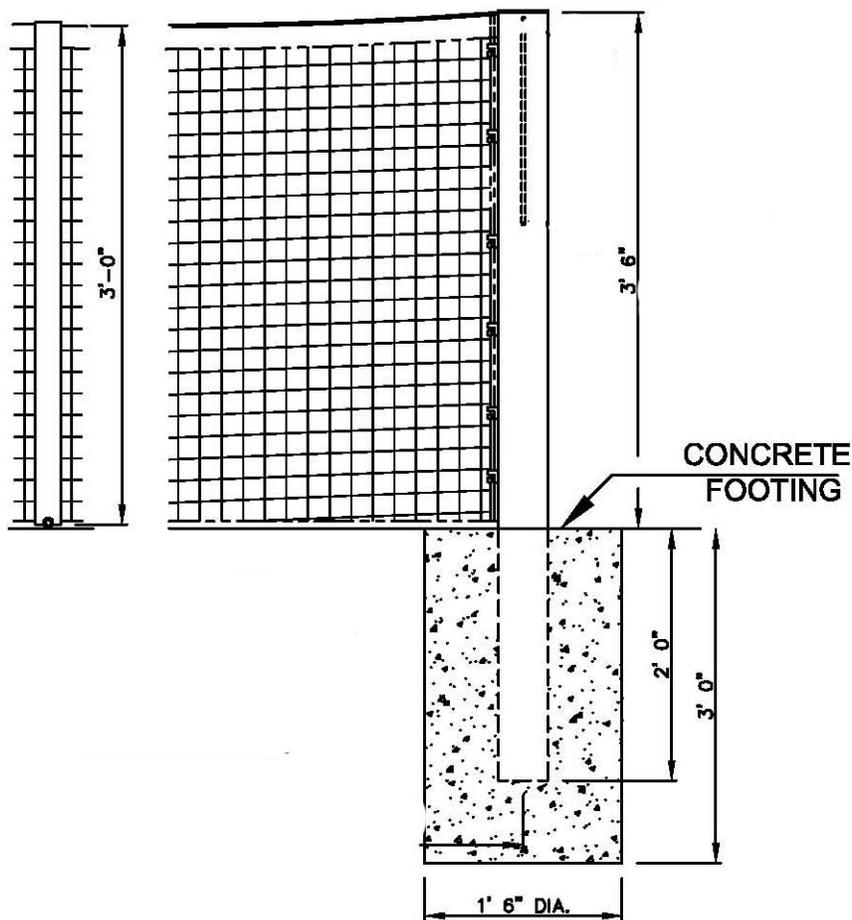
A 2 year minimum warranty is required for posts.

Nets are anticipated to require replacement annually with normal and ordinary use.

Posts are anticipated to require replacement after 10 years of normal and ordinary use.

# TENNIS NET SYSTEMS

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Tennis net end post (1)

Not to scale

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## IMAGE FOOTNOTES

(1) <http://www.porterathletic.com/pdf/cutsheets/R-865.PDF>

# VOLLEYBALL NET SYSTEMS

## PURPOSE

Volleyball net systems shall be provided at outdoor sand and grass volleyball facilities.

## GENERAL INFORMATION

Net systems shall comply with National Collegiate Athletic Association standards or other governing authority.

Related Standards: Sand Mixes | Volleyball, Court Diagram | Volleyball.

## MATERIALS AND FINISH

Post size shall be 14 gauge 4 inches minimum diameter aluminum with a powder coated green finish.

Netting shall be 4 inch square black mesh No. 24 nylon fabric, with vinyl coated steel top cables. Headband shall be 2 inch white vinyl-coated nylon.

## FEATURES

Systems shall have a heavy duty net tensioning reel with removable handle.

## INSTALLATION

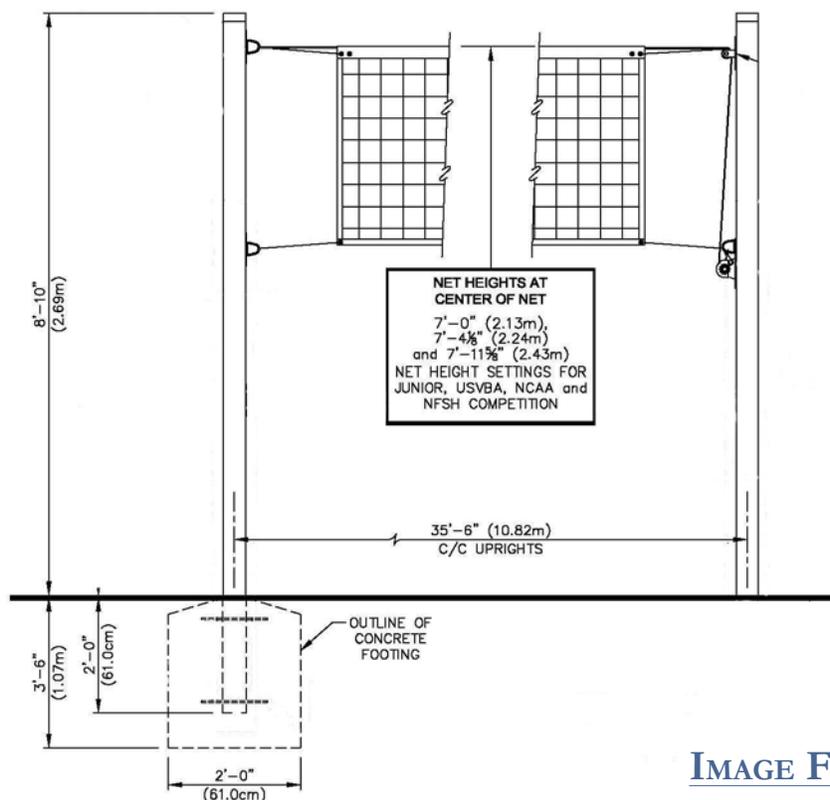
Posts shall be installed in ground with concrete footers. Footers shall be covered with 1 foot minimum vertical depth sand.

## LIFE CYCLE EXPECTATIONS

A 2 year warranty is required for posts.

Nets are anticipated to require replacement annually with normal and ordinary use.

Posts are anticipated to require replacement after 10 years of normal and ordinary use.



## IMAGE FOOTNOTES

(1) <http://www.porterathletic.com/Product.aspx?ID=98>

Volleyball net system (1)

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# BENCH | NATURAL AREA

## PURPOSE

Natural Area benches shall be located along paths and trails. Natural Area benches shall be located in parks in the Carlyle Coordinated Development District, the Eisenhower East Coordinated Development District and natural areas.

## GENERAL INFORMATION

A standard, free-standing bench shall have back support and two side rails.

The standard bench is the Columbia Cascade, Timber Form Restoration bench, model 2118-6 (6 foot length) in black powder-coated cast iron with kiln-dried 6 inch wide Alaska yellow cedar slats, or City approved equal.

## MATERIALS AND FINISH

Benches shall be constructed of a sturdy, durable metal such as galvanized steel, ductile cast iron or other metals designed for commercial exterior use.

Metal finishing shall be of high-quality, permanently affixed powder coating, applied through a heat-finished process.

Metal elements of benches shall be black.

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be embedded or sealed.

Wood elements shall be kiln-dried, natural finished yellow cedar.

## FEATURES

Benches may include a center rail.

## INSTALLATION

Benches shall be permanently affixed to a hardscape surface (concrete, pavers, etc.).

Provide 3 feet-4 inches minimum hardscape clearance on the accessible sides of benches.

Provide a solid surface of 3 feet-4 inches by 3 feet-4 inches minimum accessible area directly adjacent to benches.

Trash or recycling cans shall be placed 5 feet minimum from a bench.

Benches shall be located in seasonally shaded areas when possible.

## LIFE CYCLE EXPECTATIONS

A 10 year warranty is required.

Bench slats are anticipated to require replacement after 10 years of normal and ordinary use.

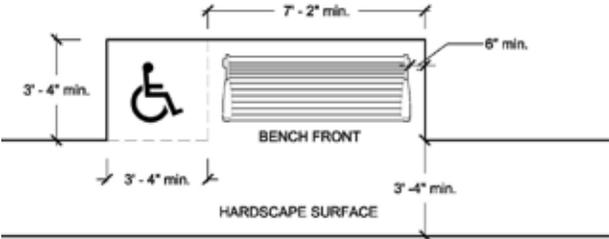
Bench frames are anticipated to require replacement after 20 years of normal and ordinary use.



Natural area bench

# BENCH | NATURAL AREA

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Bench with ADA space, plan view

Not to scale

## PURPOSE

Park benches shall be located along paths and trails adjacent to activity areas.

## GENERAL INFORMATION

A standard, free-standing bench shall have back support and two side rails.

The standard model is the Victor Stanley, Classic Series, model CR-96 (6 foot length), with vertical slats, backrest and two side handrails in black, or City approved equal.

Benches shall comply with City of Alexandria Small Area Plan Requirements.

## MATERIALS AND FINISH

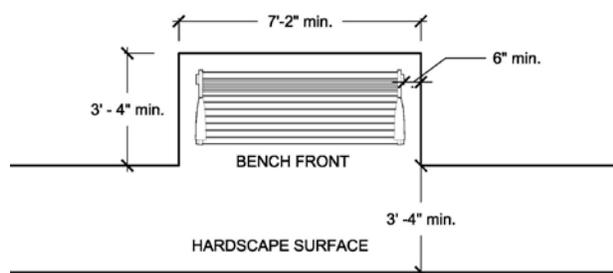
Benches shall be constructed of a sturdy, durable metal such as galvanized steel, ductile cast iron or other metals designed for commercial and exterior use.

Metal finishing shall be of high-quality, permanently affixed powder coating, applied through a heat-finished process.

Metal elements of benches shall be black in color.

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be imbedded or sealed.

Benches shall contain a minimum of 70% post-consumer steel.



Bench location, plan view

Not to scale

## FEATURES

Benches may include a center rail.

## INSTALLATION

Benches shall be permanently affixed to a hardscape surface (concrete, pavers, etc.).

Provide 3 feet- 4 inches minimum hardscape clearance on the accessible sides of benches.

Provide a solid surface of 3 feet-4 inches by 3 feet-4 inches minimum accessible area directly adjacent to benches.

Trash or recycling cans shall be placed 5 feet minimum from a bench.

Benches shall be located in seasonally shaded areas when possible.

## LIFE CYCLE EXPECTATIONS

A 10 year warranty is required.

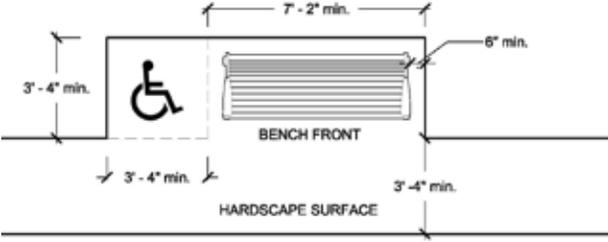
Benches are anticipated to require replacement after 20 years of normal and ordinary use.



Park bench

# BENCH | PARK

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Bench with ADA space, plan view

Not to scale

# BENCH | PLAYERS

CHAPTER 2: SITE FURNISHINGS

02

## PURPOSE

Player benches shall be located adjacent to athletic facilities in designated player areas.

## GENERAL INFORMATION

Bench shall be free-standing with a back support.

The standard bench model is Alumagoal, 15 foot length players bench, or City approved equal.

## MATERIALS AND FINISH

Benches shall be constructed of durable metal such as aluminum, galvanized steel, or other metals for commercial and exterior use.

Metal finishing shall be PVC coated or brushed aluminum. Metal surface shall be ribbed/non-slip.

Metal elements of benches shall be black, dark green or grey in color.

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be imbedded or sealed.

Materials and parts shall contain recycled materials.

Bench supports shall be imbedded in concrete where possible.

## FEATURES

Surface mounted and in-ground support posts are available. Support posts shall be  $\frac{3}{8}$  inch outside diameter galvanized steel.

Benches are available in the following lengths: 8 feet, 10 feet, 15 feet and 21 feet.

Benches longer than 10 feet shall include bracing and supports to provide long term stability.

Portable benches are available for use on synthetic infill turf fields.

## INSTALLATION

Benches shall be permanently affixed to a hardscape surface except on synthetic turf fields or temporary installations where a portable version shall be used.

Provide a 3 feet minimum horizontal hardscape clearance on accessible perimeters of benches where mounted on hardscape.

Permanent and portable benches shall include safety end caps on supports.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Benches are anticipated to require replacement after 15 years of normal and ordinary use.



Aluminum bench, permanent installation

# BENCH | PLAYERS

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Portable bench

# BICYCLE RACK

CHAPTER 2: SITE FURNISHINGS

02

## PURPOSE

Bike racks shall be provided at parks and recreation facilities consistent with the "Alexandria Bicycle Transportation and Multi-use Trail Master Plan."

## GENERAL INFORMATION

Bike racks shall be the "Inverted U" type bicycle rack, approximately 3 feet tall and 18 inches wide after installation.

Commercially produced bike racks meeting the standards identified in the "Bicycle Transportation and Multi-use Trail Master Plan" and this document shall be acceptable alternatives.

The standard bike rack is the Inverted U rack, Victor Stanley, Cycle Sentry Series, model BRWS-101, or City approved equal.

Related Standards: Surfacing Section.

## MATERIALS AND FINISH

Inverted U bicycle racks shall be fabricated from 1 ½ inch inner diameter Schedule 40 steel pipe. The bicycle racks shall not be welded in sections.

Racks shall be hot dipped galvanized steel and powder-coated.

Racks shall be black in color.

Metal products shall have smooth welds, joints and corners.

Bike rack construction, including baseplates if necessary, shall be theft and vandal proof.

## FEATURES

Alternative racks shall be subject to approval by the Director of the Department of Transportation and Environmental Services and the Director of the Department of Recreation, Parks and Cultural Activities.

A polished stainless-steel finish is an available option on certain sites subject to approval by the Director of Recreation, Parks and Cultural Activities.

## INSTALLATION

Racks shall be flange mounted on concrete, or imbedded consistent with the "Alexandria Bicycle Transportation and Multi-use Trail Master Plan".

Where flange mounted on concrete, a 5 inch diameter minimum steel base plate, ¾ inch thick, shall be used, with a minimum of 3 mounting anchor holes in each base plate. Anchors shall be theft-proof.

Bike racks shall be set firm and plumb.

Where required, steel shims shall be installed prior to anchoring in place. Baseplates more than ¾ inch from grade shall require high-strength epoxy non-shrink grout.

Bike racks shall be installed consistent with the manufacturer's recommendations.

Multiple racks shall be installed parallel with adjacent units, 2 feet-6 inches apart.

Racks shall be located so that parked bikes do not impede pedestrians.

Racks shall be located 3 feet minimum from parallel or perpendicular walls.

## LIFE CYCLE EXPECTATIONS

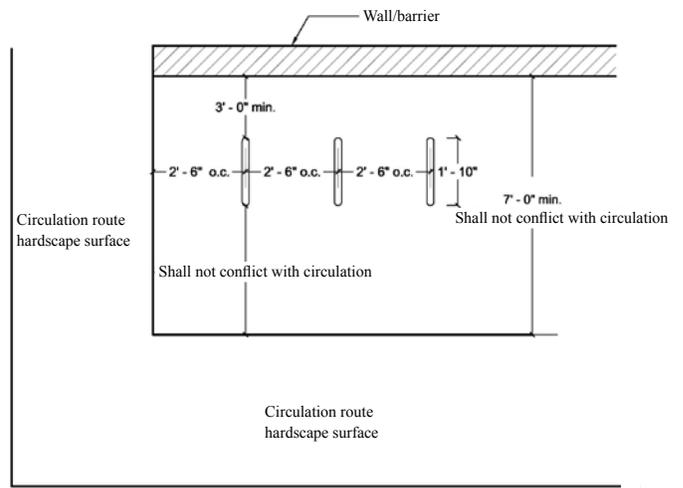
A 10 year minimum warranty is required.

Bike racks are anticipated to require replacement after 20 years of normal and ordinary use.

# BICYCLE RACK

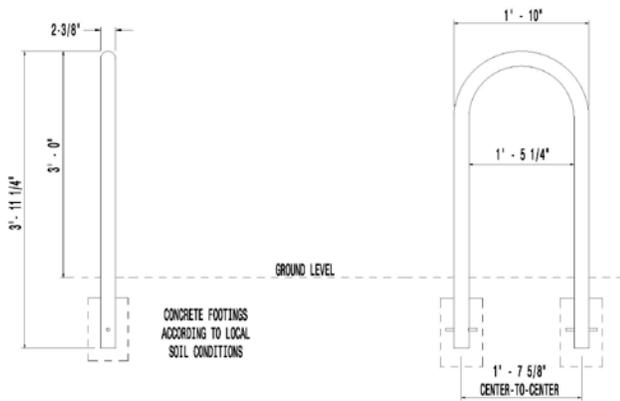


Inverted U bicycle rack



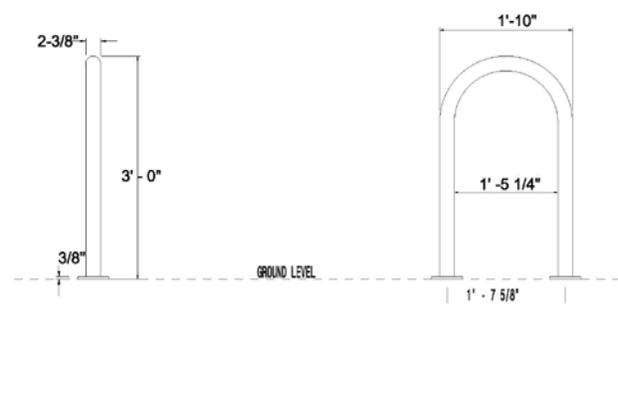
Bike rack, plan view

Not to scale



Surface mount (1)

Not to scale



Surface mount (1)

Not to scale

## IMAGE FOOTNOTES

(1) [www.securesitedesign.com](http://www.securesitedesign.com)

## PURPOSE

Structural bleacher assemblies shall be installed to provide spectator seating at outdoor athletic facilities.

## GENERAL INFORMATION

Bleachers shall comply with the most current building codes and ADA standards including requirements for guardrails and barriers.

Related Standards: Surfacing Section.

## MATERIALS AND FINISH

Bleacher seats shall be constructed of anodized aluminum.

Bleachers with more than 5 rows of seats or seats more than 2 feet-6 inches above adjacent grade shall include a chain link guard rail.

Bleacher treads and seats shall be a slip resistant ribbed surface.

Furnished assembly shall be free from sharp edges, pinch points, corners or protrusions.

Seats shall be continuous bench style.

## INSTALLATION

Comply with manufacturer's recommendations for assembly.

Bleachers shall be installed on a hardscape surface with 4 feet minimum clear horizontal distance from the edge of structure on accessible perimeter.

Where possible, bleachers shall be accessible by hardscape surface pathways.

Bleachers shall be stabilized with wedge anchors.

Bleachers shall be anchored to concrete as required by USBC.

## LIFE CYCLE EXPECTATIONS

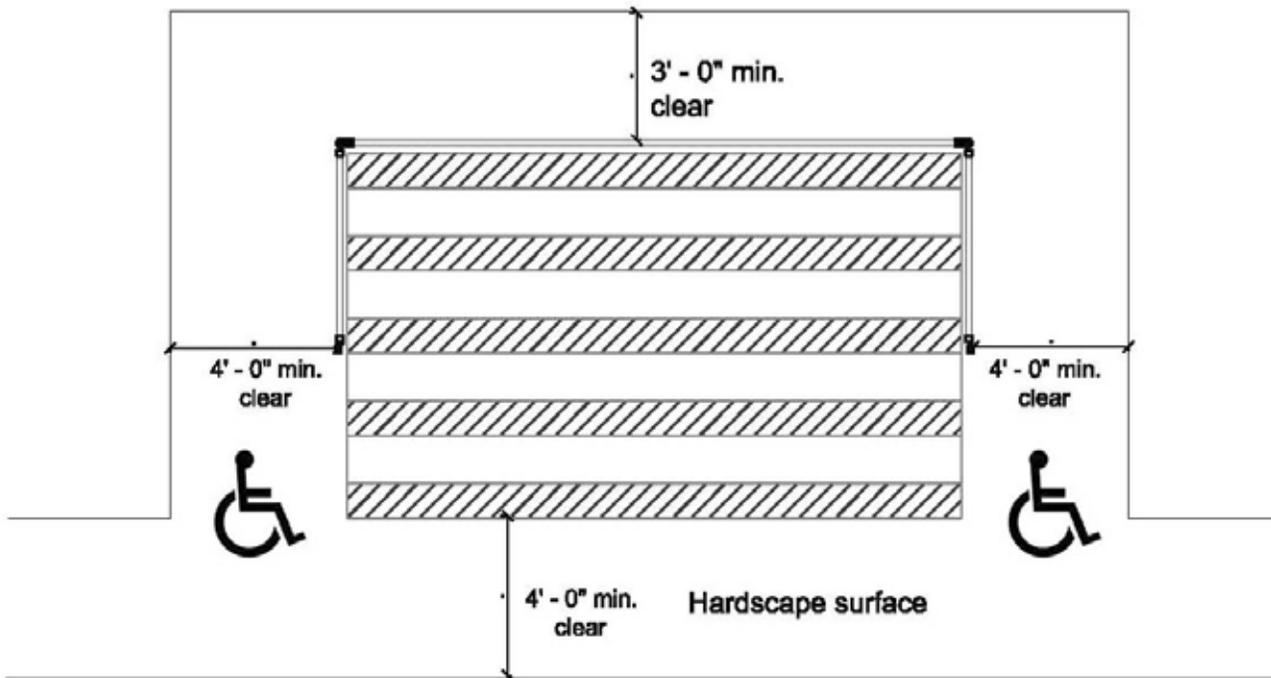
A 5 year minimum warranty is required.

Bleachers are anticipated to require replacement after 10 years of normal and ordinary use.



Typical bleachers

# BLEACHERS



Typical bleachers (1), plan view

Not to scale

## IMAGE FOOTNOTES

(1) <http://www.arcata.com/details/gtgrands/prod0743.html>

# BOLLARD | DOG EXERCISE AREA

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Composite bollards shall identify boundaries in official City Dog Exercise Areas.

## GENERAL INFORMATION

Composite bollards shall be 4 inches by 4 inches square (nominal dimensions).

## MATERIALS AND FINISH

Composite resin shall be structural grade composed of 50% wood fiber and 50% polyethylene or fiberglass.

Bollard color shall be an earth tone or brown color.

Bollards shall be 3 feet in vertical height measured from finished grade after installation.

## FEATURES

A 3 inch by 3 inch reflective aluminum sign with "Paw Print" graphic shall be displayed on two sides of each bollard.

A 2 inch wide continuous band of white or yellow reflective material shall be located at the top of each bollard.

## INSTALLATION

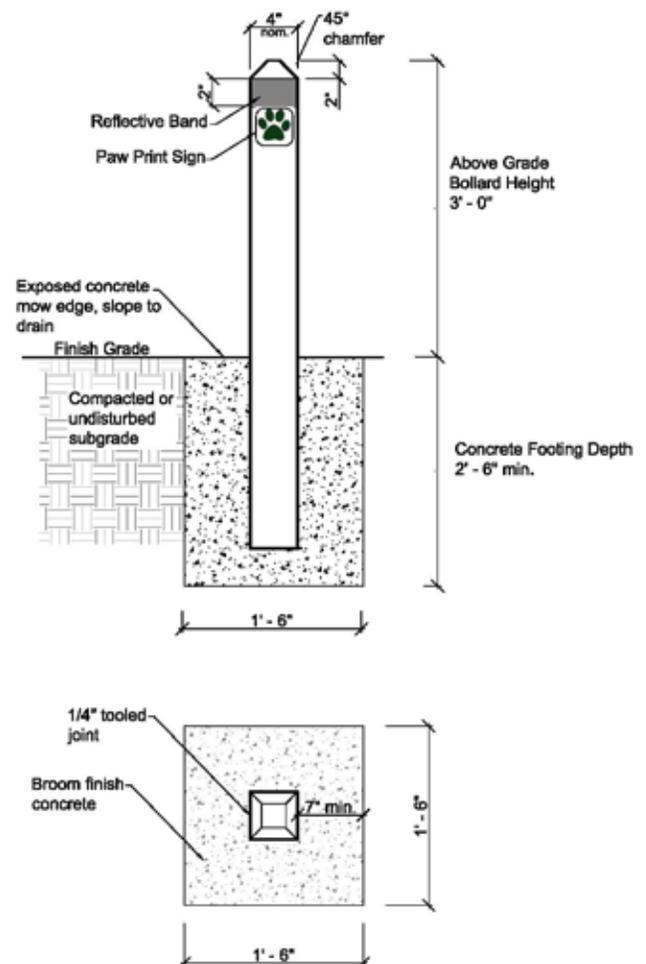
Each bollard shall be permanently installed using a 1 foot-6 inches diameter 2 feet-6 inches vertical depth concrete footing.

Bollards shall not prevent emergency or maintenance access to fields and parks.

Footings shall be flush to adjacent grade. Top of footing shall be sloped to shed water.

## LIFE CYCLE EXPECTATIONS

Bollards are anticipated to require replacement after 20 years of normal and ordinary use.



Unfenced Dog Exercise Area bollard

Not to scale

Intentionally Blank

## PURPOSE

Bollards shall be used to limit unauthorized vehicular traffic without restricting the movement of pedestrians and cyclists in historic areas.

## GENERAL INFORMATION

The standard bollard is the Fair Weather, B-1 Series (5 inches diameter) bollard with two, 2 inch width collars in black powder-coated, Schedule 10 steel, or City approved equal. Collar relief from the surface of the bollard shall be  $\frac{1}{4}$  inches.

## MATERIALS AND FINISH

Bollards shall be a durable metal such as galvanized steel, designed for commercial exterior use.

Metal finishing shall be a high-quality, permanently affixed powder coating.

Bollard color shall be black.

Finished assembly shall have smooth welds, joints and corners.

Hinges, latches and moving parts shall be weather resistant and lubricated at time of purchase.

## FEATURES

Eyebolts shall be provided in instances where chain will provide an additional barrier between bollards.

Metal bollards are available in heights of 2 feet-6 inches, 3 feet, 3 feet-6 inches, or 4 feet, and 4 inch and 8 inch diameter.

Mounting styles are permanent embedded, surface bolted and sleeved/removable.

## INSTALLATION

Bollards shall be spaced 3 feet-4 inches minimum horizontal distance.

Removable installation shall be used where authorized and emergency access is needed.

Removable mounting requires a sleeve/casing installed 2 vertical feet into the ground. Removable bollards shall be secured with lock and key.

Bollards shall be marked with reflective tape between the decorative collars.

## LIFE CYCLE EXPECTATIONS

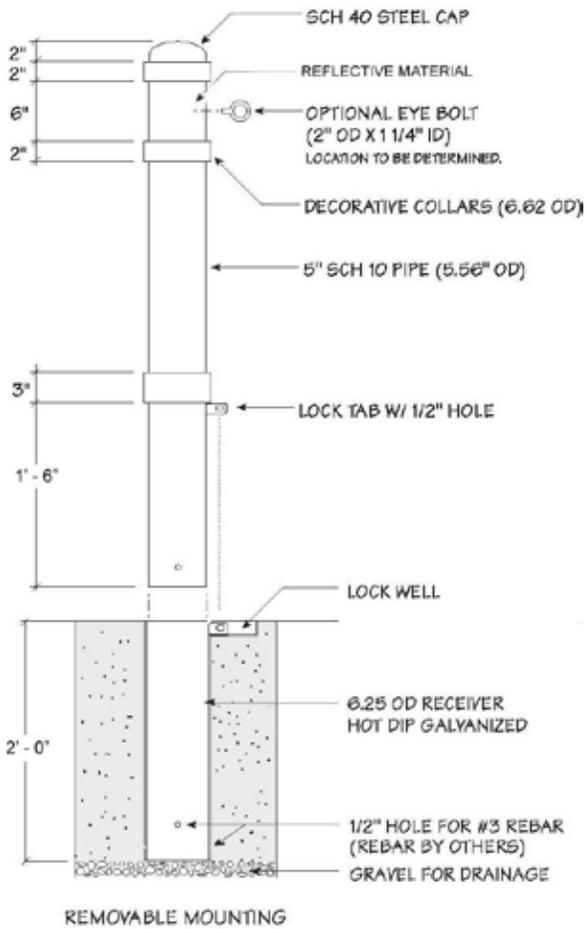
A 10 year minimum warranty is required.

Bollards are anticipated to require replacement after 20 years of normal and ordinary use.



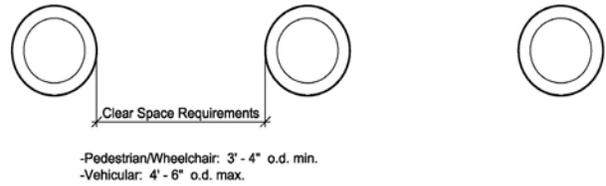
Metal bollard

# BOLLARD | METAL



Bollard section (1)

Not to scale



Bollard spacing (1)

Not to scale

## IMAGE FOOTNOTES

(1) [www.fairweathersf.com](http://www.fairweathersf.com)

## PURPOSE

Wood bollards shall limit vehicular traffic without restricting the movement of pedestrians and cyclists in natural resource parks.

## GENERAL INFORMATION

Wood bollards shall be constructed of 4 inch by 4 inch pressure treated lumber imbedded into 1 foot-6 inches minimum solid subgrade material (nominal dimensions).

Vertical height shall be 2 feet-6 inches minimum and 4 feet maximum measured from finish grade.

## MATERIALS AND FINISH

Wood bollards shall be constructed of pressure treated lumber. Pressure treated lumber shall be Alkaline Copper Quaternary (ACQ) or Copper Borate Azole (CA) type.

Bollard tops shall include a 45 degree chamfer continuous at top.

A 2 inch wide continuous band of white or yellow reflective material shall be located at the top of each bollard.

## INSTALLATION

Bollards shall be spaced 3 feet-4 inches minimum horizontal distance bollard face to bollard face.

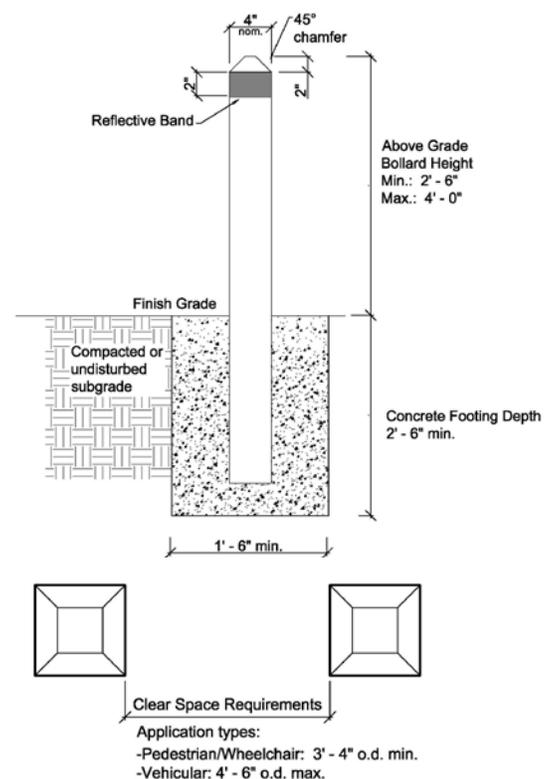
Bollards shall not prevent emergency or maintenance access to fields and parks.

Wood bollards shall be mounted in concrete footing with 1 foot-6 inches minimum diameter and 2 feet-6 inches minimum vertical depth. Footing shall be flush to adjacent grade. Top of footing shall be sloped to shed water.

Removable installation shall be used where authorized and emergency access is needed.

## LIFE CYCLE EXPECTATIONS

Bollards are anticipated to require replacement after 15 years of normal and ordinary use.



Wood bollard

Not to scale

Intentionally Blank

# DRINKING FOUNTAIN | PET

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Fountains with a ground level dog fountain shall be installed in parks with dedicated pet areas and other areas receiving large amounts of pedestrian traffic.

## GENERAL INFORMATION

The standard fountain is the Most Dependable Fountains, Inc., 400 Series, Pedestal Drinking Fountain with optional pet fountain, or City approved equal.

Where accessibility and pet water systems conflict, the Most Dependable Fountains Inc., Model 300 pedestal pet fountain shall be used.

Only authorized pet fountains shall be attached to standard drinking fountain systems.

## MATERIALS AND FINISH

Fountains shall be constructed of stainless steel for commercial and exterior use and powder coated.

Dark green or stainless steel are the required colors for fountains. The bubbler, bowl and buttons shall be satin finish stainless steel.

Metal products shall have smooth welds, joints and corners.

Hinges, latches and mechanical parts shall be weather resistant.

Fountains shall include jug fillers.

## INSTALLATION

Fountains shall be mounted permanently to hardscape surfaces or in-ground mount per manufacturer's recommendations.

Provide a 3 feet-4 inch minimum horizontal dimension of hardscape surface at the accessible perimeter of each fountain.

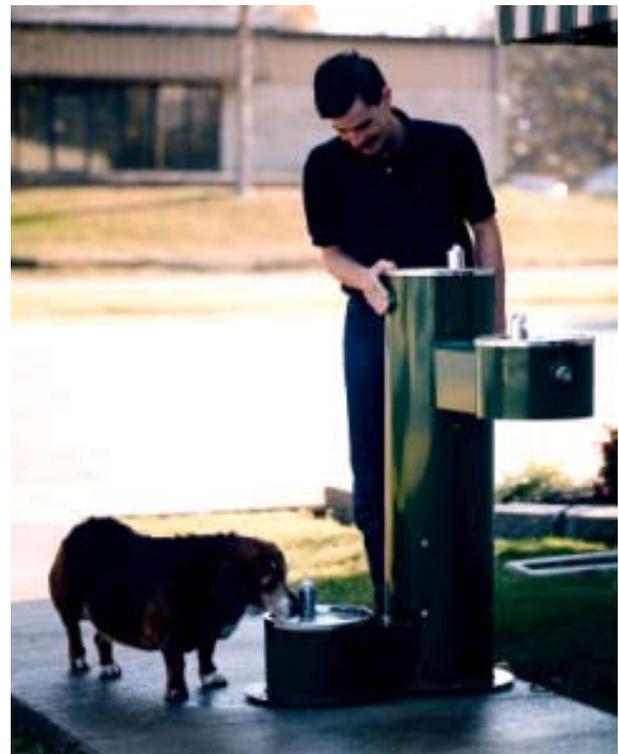
Fountains shall be installed by a licensed plumber consistent with applicable City and State Codes.

Top of slab shall be sloped to shed water.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Fountains are anticipated to require replacement after 5 years of normal and ordinary use.



Drinking fountain with pet bowl (1)

## IMAGE FOOTNOTES

(1) <http://mostdependable.com/>

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# DRINKING FOUNTAIN | STAND ALONE

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Water fountains shall be provided in parks where water supply is desirable, particularly near active park sites and playgrounds.

## GENERAL INFORMATION

Fountains shall be accessible for wheelchair and mobility devices at standard height.

Fountains shall provide 2 feet-3 inches minimum vertical clearance and 2 feet-10 inches maximum vertical clearance from adjacent finished grade.

The drinking bubbler height shall be 3 feet-2 inches maximum vertical distance from adjacent grade.

Fountains shall be activated by a low-weight, 5lbs or less, push-button operation mechanism located below the bowl.

Bubblers shall have a welded protector shield.

Fountains shall include a vandal proof panel for access to interior systems and filters.

The standard park drinking fountain is the Most Dependable Fountain Inc., Model 410, pedestal drinking fountain with satin finish stainless steel bowl, and stainless steel or green powder-coated galvanized steel pedestal, or City approved equal.

## MATERIALS AND FINISH

Fountains shall be constructed of standard steel or stainless steel, for commercial and exterior use.

Green powder coated and stainless steel shall be the finish options for fountains. The bubbler, bowl and buttons shall be satin finish stainless steel.

Metal products shall have smooth welds, joints and corners.

Hinges, latches and mechanical parts shall be weather resistant.

Fountains shall include jug fillers.

## INSTALLATION

Fountains shall be mounted permanently to hardscape surfaces or in-ground mount per manufacturer's recommendations.

Provide a 3 feet-4 inch minimum horizontal dimension of hardscape surface at the accessible perimeter of each fountain.

Fountains shall be installed by a licensed plumber consistent with applicable City and State Codes.

Top of slab shall be sloped to shed water.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Fountains are anticipated to require replacement after 5 years of normal and ordinary use.



Drinking fountain (1)

## IMAGE FOOTNOTES

(1) <http://mostdependable.com/>

Intentionally Blank

## PURPOSE

Flagpoles shall be installed to display local, state and federal flags.

## GENERAL INFORMATION

Flags and flagpoles shall be consistent with the United States Flag Code.

Flagpoles shall be 30 feet maximum vertical height without an approved Special Use Permit.

The halyard and pulley system shall be interior and accessed by a locked panel at the base of the pole.

## MATERIALS AND FINISH

Flagpoles shall be constructed of seamless extruded aluminum alloy tubing, with a minimum wall thickness of  $\frac{5}{32}$  inch, and a brushed satin finish.

Flagpoles and flashing collar shall have a directional, medium satin polish and be sealed with a clear, hard-coat wax.

Flagpoles shall be designed to fly a 6 feet by 10 feet American flag, a 5 feet by 8 feet Virginia State flag and a 4 feet by 6 feet City of Alexandria flag in combination.

## INSTALLATION

Flagpoles shall not be located in conflict with active uses or vegetation.

Flagpoles shall be installed in locations that do not disrupt pedestrian traffic. Provide a 3 feet-4 inch minimum horizontal width hardscape surface adjacent to accessible pathway.

Flagpoles shall be located adjacent to accessible hardscape surfaces.

Concrete footings shall be consistent with manufacturer's recommendations and designed by a professional engineer. Top of footing shall be sloped to shed water.

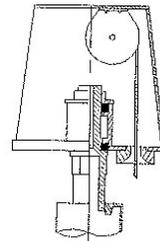
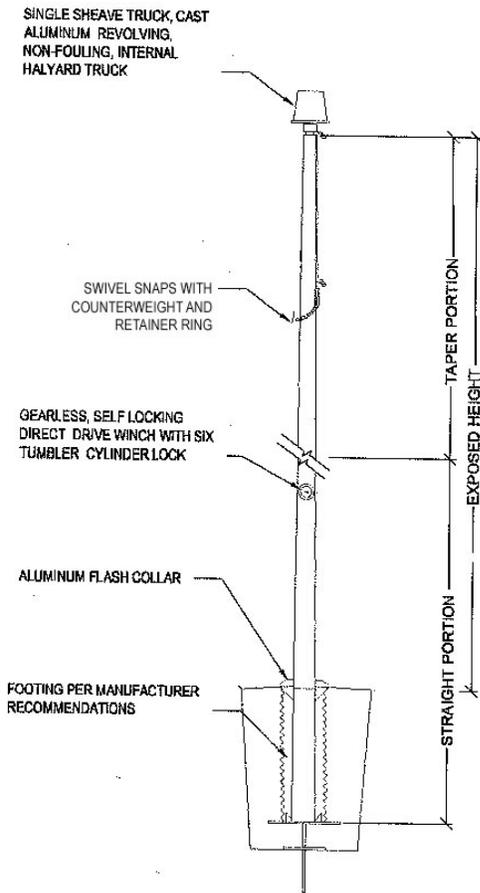
Flagpole footings shall be designed for wind loading consistent with City of Alexandria Code.

## LIFE CYCLE EXPECTATIONS

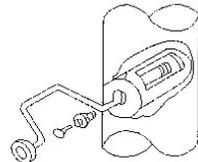
A 10 year minimum warranty is required.

Flagpoles are anticipated to require replacement after 20 years of normal and ordinary use.

# FLAGPOLE



TRUCK DETAIL  
NOT TO SCALE



WINCH DETAIL  
NOT TO SCALE



SLEEVE DETAIL  
NOT TO SCALE

Flagpole

Not to scale

Flagpole internal halyard

Not to scale

## PURPOSE

Grills shall be located in areas where food consumption is encouraged.

## GENERAL INFORMATION

Where grills are permitted, at least one grill in each park shall be wheelchair accessible, with a minimum 1 per every 5 installed at each park.

The standard grill model is Summit Supply Corporation of Colorado, Model Number EC-40-B2, or City approved equal.

Grills shall be located based on prevailing winds, in relationship to pavilions or nearest picnic area. Grills shall be located to minimize impact of odors, noise, and fire in relation to adjacent uses.

Related Standards: Receptacle | Ash/coal.

## MATERIALS AND FINISH

Finish shall be black enamel.

Units shall not contain plastic, resin, wood or unfinished metal.

Metal products shall have smooth welds, joints, and rounded corners. Joint fasteners shall be imbedded or sealed.

Units shall have a firebox dimension of 8 inches depth by 3 feet-6 inches width by 1 foot-5 inches height.

## FEATURES

A metal scoop shall be provided with each grill to dispose of ashes/coins.

Cooking grate shall be anti-theft.

## INSTALLATION

Pedestal grills shall be permanently mounted on in-ground posts. Adjacent grade shall be covered by a surface layer of compacted stone dust 3 inches vertical depth over filter fabric and extending 3 feet-4 inches in each direction from the base of the pedestal.

ADA grills shall be mounted between 1 foot-7 inches and 2 feet from finished grade to the cooking surface. Standard grills may be mounted up to 4 feet from finished grade to the cooking surface.

Provide a solid surface of 3 feet-4 inches by 3 feet-4 inches minimum accessible area at the perimeter of each ADA grill unit on the side facing the hard surface path.

Grills shall be located a minimum of 16 feet from any tree trunk and 60 feet from any playgrounds.

Top of footing shall be sloped to shed water.

## LIFE CYCLE EXPECTATIONS

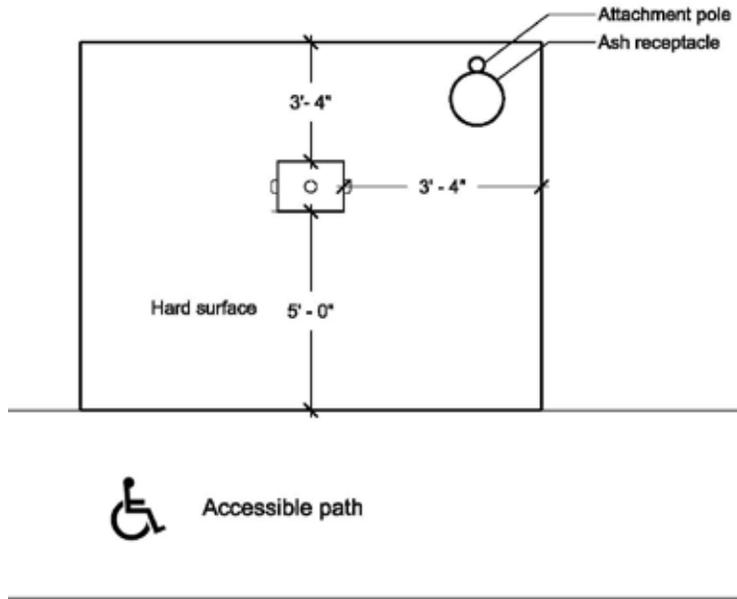
A minimum warranty of 1 year is required.

Grills are anticipated to require replacement after 10 years of normal and ordinary use.



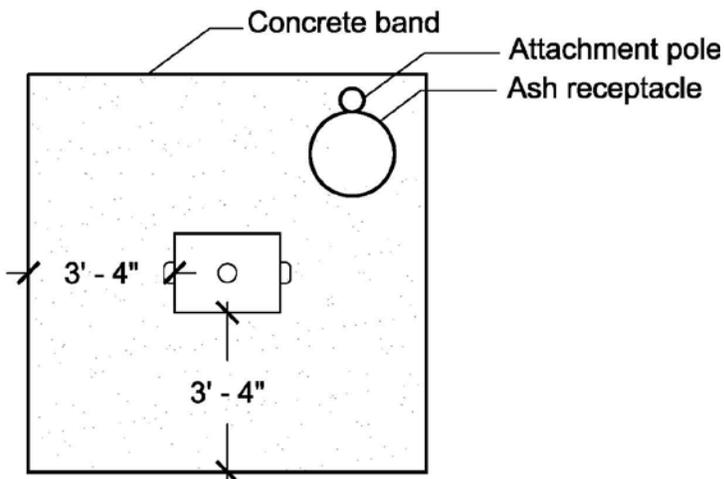
Grill

# GRILL



Accessible grill, plan view

Not to scale



Grill station, plan view

Not to scale

# HAND RAILS | STAND ALONE

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Hand rails shall be placed in locations where ramps change 6 inches or more in grade and on stairs. Handrails may also be used in conjunction with walls 1 foot-6 inches or more in vertical height.

## GENERAL INFORMATION

Hand rails shall be installed consistent with state and local building code and federal ADA standards.

## MATERIALS AND FINISH

Hand rails shall be constructed of durable materials such as galvanized steel, recycled composite resin or other appropriate splinter free, exterior material.

Metal finishing shall be of high-quality, permanent, black powder coating, provided through a heat-finished process.

Metal products shall have smooth welds, joints and properly treated corners. Joint fasteners shall be imbedded or sealed.

Composite resin shall be structural grade composed of 50% wood fiber and 50% polyethylene or fiberglass.

## FEATURES

If site requirements cause changes to height, design or color contradictory to these guidelines, the proposed design shall be approved for compliance with accessibility needs by the Department of Recreation, Parks and Cultural Activities.

In heavy use areas, skateboard deterrents may be required.

## INSTALLATION

Secure rails through a permanent in-ground or surface method consistent with manufacturer's recommendations.

Provide hand rails on both sides of the path.

Handrails shall be 5 feet minimum horizontal length.

Engineer and anchor hand rails to withstand loads per USBC.

## LIFE CYCLE EXPECTATIONS

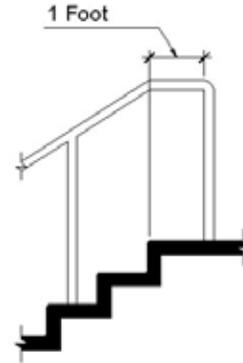
A 5 year minimum warranty is required.

Hand rails are anticipated to require replacement after 20 years of normal and ordinary use.

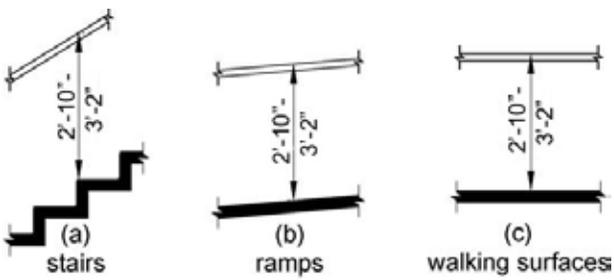
# HAND RAILS | STAND ALONE



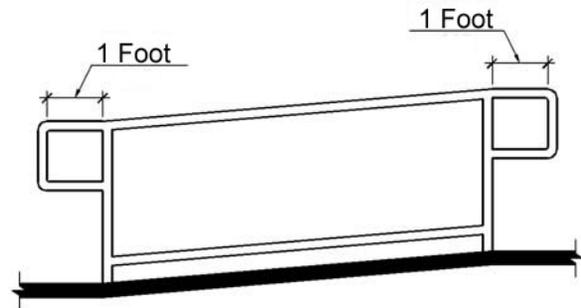
Hand rail at stair



Hand rail at top stair (1)



Hand rail heights (2)



Hand rail at ramp (3)

## IMAGE FOOTNOTES

(1,2,3) 2010 ADA Standards for Accessible Design, Department of Justice

## PURPOSE

Lighting shall be used to illuminate portions of the park including parking lots and designated areas.

## GENERAL INFORMATION

Square, down light fixtures shall be installed in park locations subject to historic light guidelines or City of Alexandria small area plan approval may be modified.

Lighting in POS zoned properties requires a Special Use Permit.

## MATERIALS AND FINISH

The lamp housing shall be die-cast aluminum with a black powder coat finish.

The lens frame shall be die-cast aluminum with a hinge assembly for maintenance. The lens shall be high impact, clear-tempered glass.

The metal pole and fitter shall be finished with a black powder coat finish.

Light fixtures shall be mounted on square aluminum poles with an extended pole mounting arm to offset the fixture.

Light poles shall be 15 feet in height and installed with an anchor base. The anchor bolts shall be recessed into an anchor base casting. Provide tamper resistant covers.

## FEATURES

Light fixtures that require separate ballast boxes are not permitted.

Lamps may include a wire guard.

Lamps shall be metal halide.

LED options may be installed with the approval of the Director of Recreation, Parks and Cultural Activities, and the Director of Transportation and Environmental Services.

Double fixtures are available.

## INSTALLATION

Light poles shall be located so as not to be in conflict with vegetation or plantings.

Lights shall be located a minimum of 3 feet from the edge of all shared-use paths or pedestrian walkways.

Light pole foundations shall be flush to finished grade. Top of footing shall be sloped to shed water.

Connections installed beneath paving shall be sleeved.

Installation work shall be performed in conformity with USBC.

Luminaire shall not extend below fixture housing.

## LIFE CYCLE EXPECTATIONS

A 3 year minimum warranty is required on area light fixtures.

A 3 year minimum warranty is required on poles.

Lights are anticipated to require replacement after 20 years of normal and ordinary use.

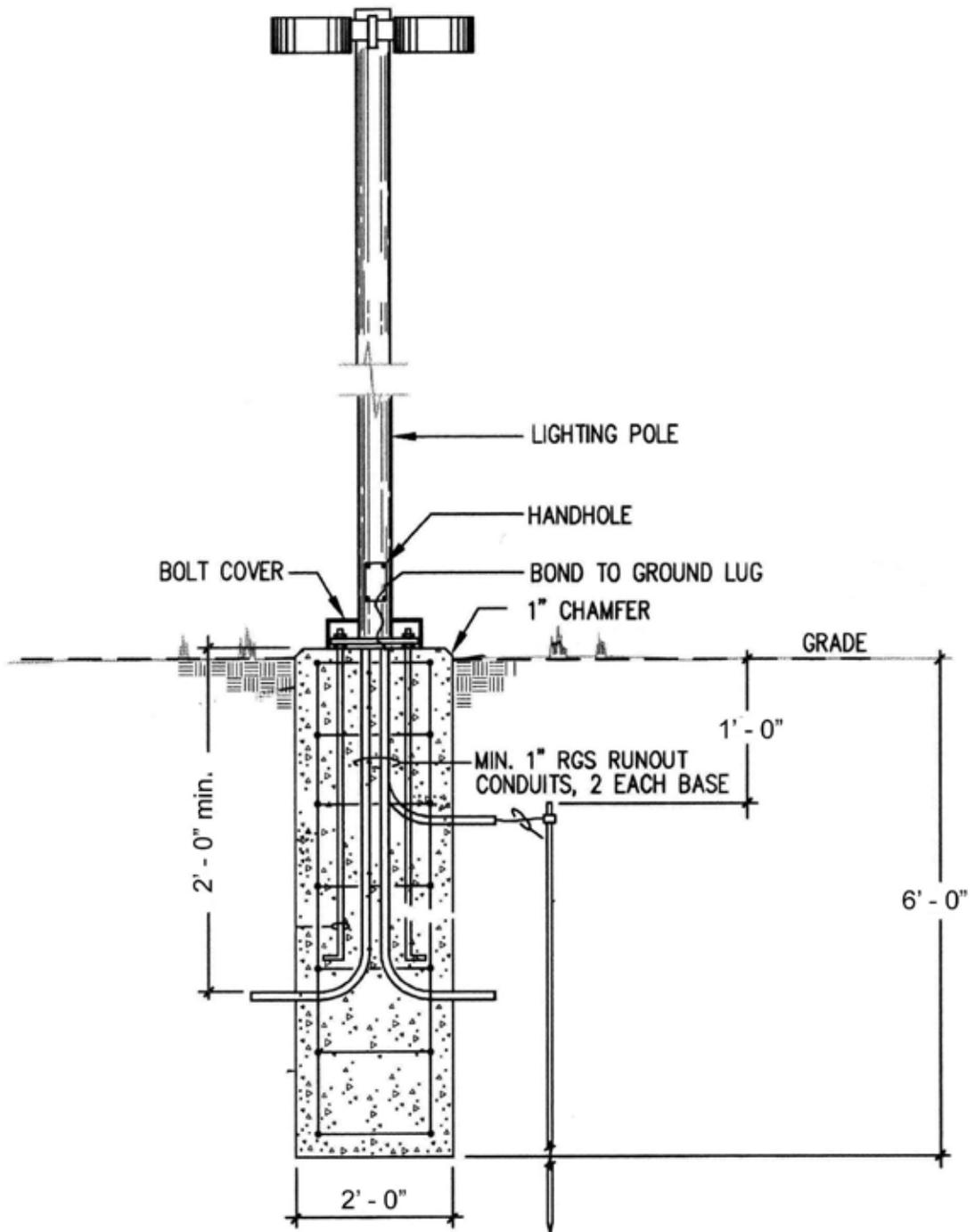


Square light fixture (1)

## IMAGE FOOTNOTES

(1) [www.sitelighting.com](http://www.sitelighting.com); Philips Gardco lighting.

# LIGHTING | AREA



Area light pole assembly

Not to scale

# LIGHTING | ATHLETIC FACILITIES

## PURPOSE

Athletic field and court lighting systems shall be provided to ensure safe play environments where athletic field/court use is desired beyond normal daylight hours.

## GENERAL INFORMATION

Athletic field and court lighting shall be provided as a complete sports lighting system.

The standard system is the Musco Light-Structure Green, or City approved equal.

Lighting levels shall provide safe play for the programmed sports. The average foot candle level on a rectangular playing surface shall be 50 fc and the uniformity shall be 2.0:1.0. The average foot candle level on a court playing surface shall be 30 fc and designated uniformity shall be 2.0:1.0.

Lighting in POS zoned properties requires a Special Use Permit.

## MATERIALS AND FINISH

Light poles and cross arms shall be galvanized steel, and shall meet wind loading requirements of the IBC Building Code and AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

Bases shall be pre-stressed direct burial concrete. Foundations shall be designed by a professional engineer licensed in the Commonwealth of Virginia.

The mounting heights for athletic fields are 60-80 feet above the playing surface. Mounting heights for athletic courts are 20-40 feet above the playing surface.

Wiring shall be contained inside the cross arms and poles.

Light fixtures shall be 1500W or 1000W metal halide lamps with external visors to minimize light glare and spill.

## FEATURES

Light system shall include a remote monitoring system for performance tracking.

Lighting system shall include a remote lighting control system that allows operation via web site, phone, fax and email. System shall be programmable up to a year in advance and accept a seven day schedule.

Lighting system shall include an accessible on-off selector switch located on one of the poles.

Lighting shall include pegs on poles for maintenance access.

Ballasts shall be located on each individual pole.

## INSTALLATION

Light pole installations require separate permits.

Coordinate player-activated switches and timers to minimize additional infrastructure.

Installation work shall be performed in conformity with USBC.

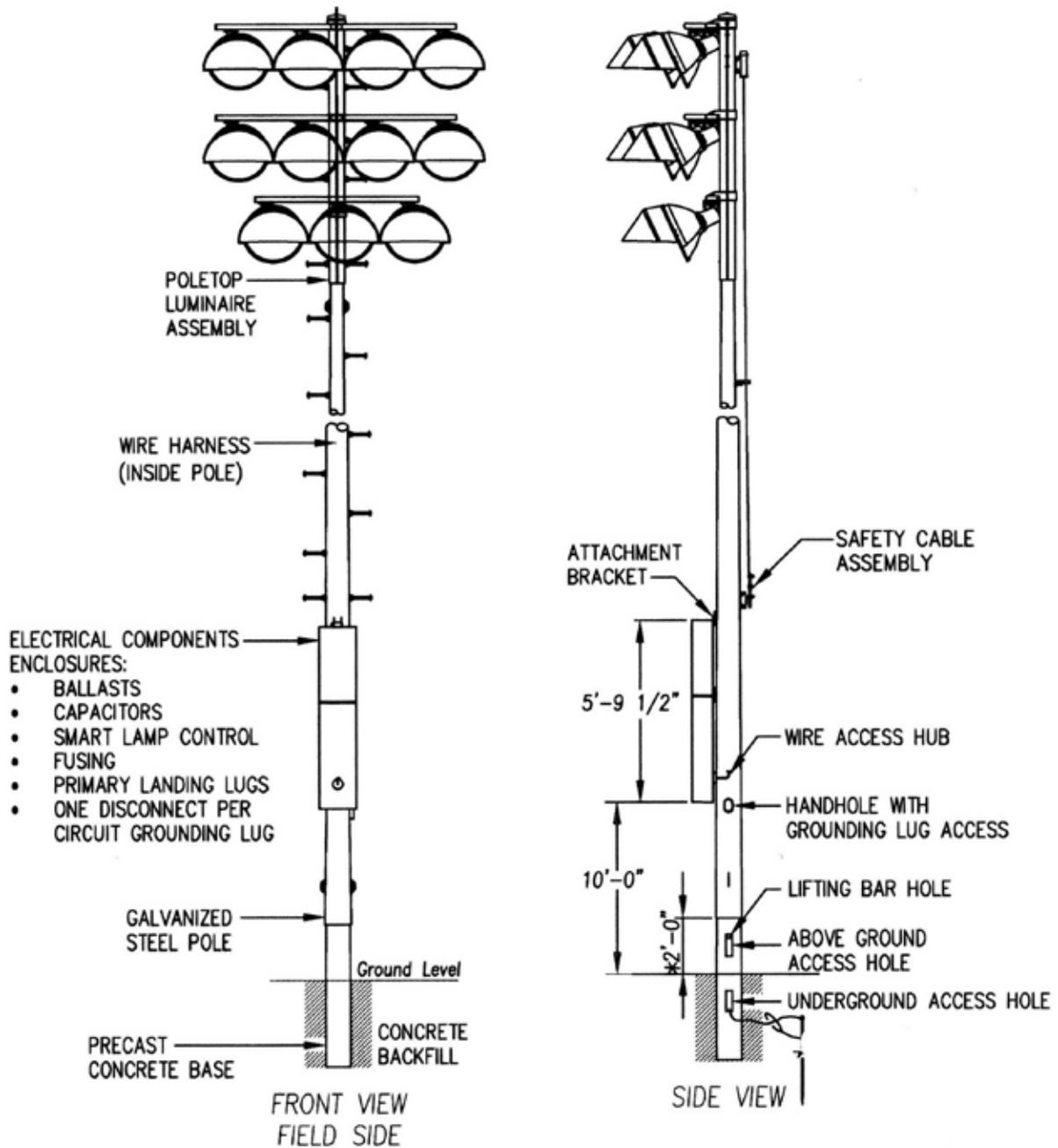
Poles shall include direct burial concrete bases.

## LIFE CYCLE EXPECTATIONS

A 25 year warranty is required on athletic lighting systems.

Lighting systems are anticipated to require replacement after 40 years of normal and ordinary use.

# LIGHTING | ATHLETIC FACILITIES



Typical athletic lighting

Not to scale

# LIGHTING | GROUND RECESSED

## PURPOSE

Ground recessed lights shall be used to illuminate significant park features or items of special interest such as art, flag poles and signs.

## GENERAL INFORMATION

Lighting installations require electrical permits.

Lighting in POS zoned properties requires a Special Use Permit.

## MATERIALS AND FINISH

The lamp housing shall be composite material, resistant to ultraviolet degradation and corrosion.

The lens shall be ADA compliant, anti-slip material and able to withstand loads up to 200 PSI, with a commercial grade frame.

## FEATURES

Lens frame material shall be bronze, aluminum or black finish.

Directional shields shall be provided where appropriate.

Lamps shall be metal halide.

LED options may be installed with the approval of the Director of Recreation, Parks and Cultural Activities.

## INSTALLATION

Lights shall be installed in locations with positive drainage away from lights.

Flush light fixtures shall be installed in hardscape surfaces.

Connections installed beneath paving shall be sleeved.

Installation work shall be performed consistent with USBC.

Install manufacturer's recommended drainage.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required on ground recessed light fixtures.

Lamps are anticipated to require replacement after 2 years of normal and ordinary use.

Light fixtures are anticipated to require replacement after 7-10 years of normal and ordinary use.

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# LIGHTING | HISTORIC POLE

## PURPOSE

The historic pole light shall be used as a street or park road light in the City's Historic Districts to illuminate portions of public land or right-of-way.

## GENERAL INFORMATION

Gadsby light fixtures shall be installed in the Gadsby Light District within the Old and Historic District of Alexandria.

Lighting in POS zoned properties requires a Special Use Permit.

## MATERIALS AND FINISH

Lights shall be mounted on fiberglass or aluminum poles.

Poles and fitters shall be finished with a black UV-resistant catalyzed urethane coating.

Light poles/fixtures/luminaires shall be 14 feet total height from finished grade and installed with an anchor base.

The ornamental base cover shall be designed to cover the anchor bolts with one or two pieces, be vandal resistant, and finished to match the post.

The pole top shall meet the requirements of the Department of Transportation and Environmental Services.

No cage, band, or finial shall be installed.

Fixture metal finishing shall be a high-quality, permanently affixed powder coating, done through a heat-finished process.

## FEATURES

Light fixtures that require separate ballast boxes are not permitted.

Globes/post tops shall include full top reflectors.

LED options may be installed with the approval of the Director of the Department of Recreation, Parks and Cultural Activities, and the Director of the Department of Transportation and Environmental Services.

## INSTALLATION

Light poles shall be located so as not to be in conflict with vegetation or plantings.

Lights shall be located a minimum of 3 feet from the edge of all shared-use paths or pedestrian walkways.

Light pole foundations shall be flush to finished grade. Top of footing shall be sloped to shed water.

Connections installed beneath paving shall be sleeved.

Installation work shall be performed in conformity with USBC.

Lights shall be installed on a GFI circuit and switch.

## LIFE CYCLE EXPECTATIONS

A 3 year minimum warranty is required on historic light fixtures.

A 3 year minimum warranty is required on poles.

Lights are anticipated to require replacement after 20 years of normal and ordinary use.

# LIGHTING | HISTORIC POLE

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Gadsby historic pole light



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Historic light fixtures (1)

## IMAGE FOOTNOTES

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(1) <http://www.hadco.com>

# LIGHTING | STREET POLE

## PURPOSE

The street pole light shall be used to illuminate portions of the park system, including streets, park roads and trails.

## GENERAL INFORMATION

Light fixtures shall be installed as a street or park road light in areas not guided by historic light fixture requirements or small area plan requirements.

Lighting in POS zoned properties requires a Special Use Permit.

The standard light fixture is Hadco, Inc., R53, or City approved equal.

## MATERIALS AND FINISH

The globe/post top shall be Type V, clear stabilized acrylic with a Victorian style roof.

No cage, band, or finial shall be installed.

The pole and fitter shall be finished with a black UV-resistant catalyzed urethane coating.

Lights shall be mounted on fiberglass, fluted and tapered decorative poles for post top lights.

Light poles/fixtures/luminaires shall be 14 feet total height from finished grade and installed with an anchor base.

The ornamental base cover shall be designed to cover the anchor bolts in one or two pieces, be vandal resistant and finished to match the post.

## FEATURES

Light fixtures that require separate ballast boxes are not permitted.

Post tops shall include full top reflectors and may include a house side shield if warranted by the pole location.

LED options may be installed with the approval of the Director of Recreation, Parks and Cultural Activities, and the Director of Transportation and Environmental Services.

## INSTALLATION

Light poles shall be located so as not to be in conflict with vegetation or plantings.

Lights shall be located a minimum of 3 feet from the edge of all shared-use paths or pedestrian walkways.

Light pole foundations shall be flush to finished grade. Top of footing shall be sloped to shed water.

Connections installed beneath paving shall be sleeved.

Installation work shall be performed in conformity with USBC.

## LIFE CYCLE EXPECTATIONS

A 5 year minimum warranty is required on street pole light fixtures.

A 3 year minimum warranty is required on poles.

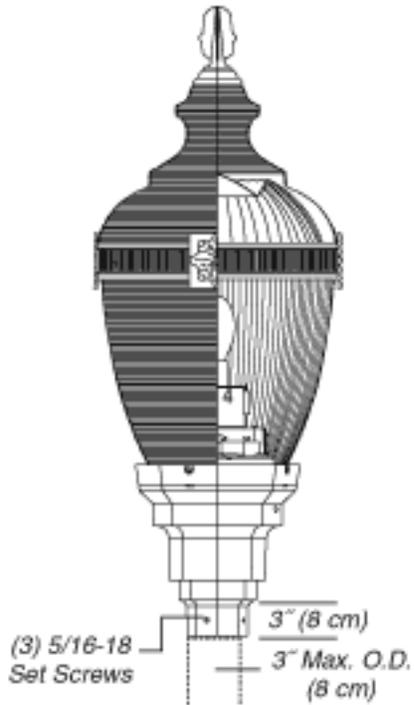
Lights are anticipated to require replacement after 20 years of normal and ordinary use.



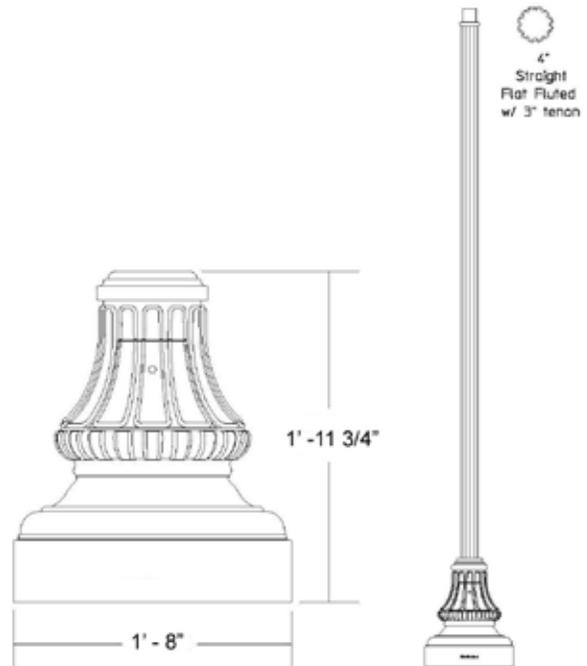
Fiberglass fluted base

# LIGHTING | STREET POLE

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Street light fixture (1)



Virginia Dominion Power - Fiberglass fluted street pole (2)

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## IMAGE FOOTNOTES

(1) <http://www.hadco.com>

(2) <http://www.hadco.com>

# PICNIC TABLE | ADA

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Accessible picnic tables shall be located in designated areas of parks.

## GENERAL INFORMATION

One wheelchair accessible table is required for every four tables with a minimum of one per picnic area. Table top area shall be a minimum 24 square feet.

The width of accessible seat openings shall be between 2 feet-6 inches and 4 feet. These spaces shall be located on the side or end of the table with the appropriate clearance beneath the table.

The standard ADA compliant table is the Barco, Apollo Picnic Table, model T9EBHDCPPSM, or City approved equal.

## MATERIALS AND FINISH

Tables shall be constructed of a sturdy, durable metal such as galvanized steel or other metals designed for commercial and exterior use.

Metal finishing shall be a high-quality, permanently affixed powder coating, preferably done through a heat-finished process, or a high performance thermoplastic finish.

Tables shall be dark green. Tables in Historic Districts shall be black.

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be imbedded or sealed.

Materials and parts shall contain recycled materials.

## FEATURES

Picnic tables are available in multiple configurations. The standard is rectangular with side benches.

## INSTALLATION

Tables shall be permanently surface mounted with anchor bolts or consistent with the manufactures recommended in-ground method.

Picnic tables shall be accessible by hard surface paths.

The hard surface pad shall have a minimum 1% and 3% maximum cross slope, and provide 3 feet-4 inches minimum clearance on all sides and 5 feet minimum clearance on the ADA accessible side.

Tables shall be located in seasonal shade where possible.

A trash/recycling can shall be located within 15 feet, but 5 feet minimum from the picnic table.

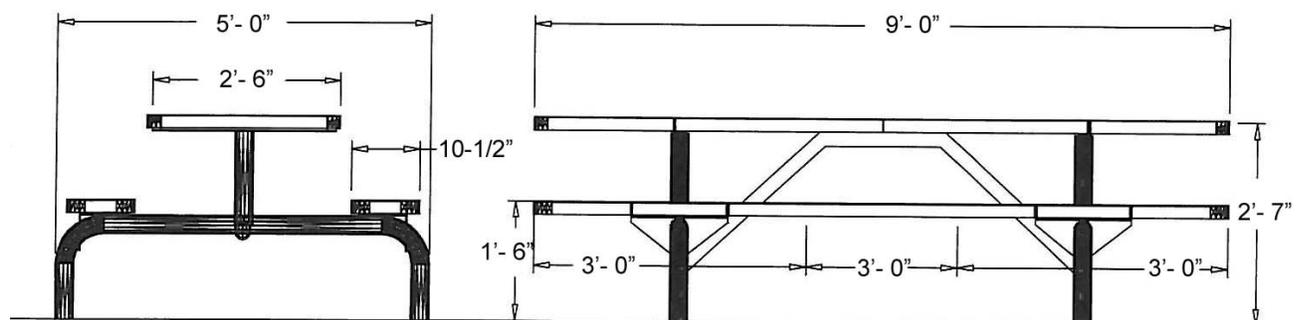
## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Picnic tables are anticipated to require replacement after 15 years of normal and ordinary use.

## IMAGE FOOTNOTES

(1) [http://www.barcoproducts.com/store/item.asp?ITEM\\_ID=1489](http://www.barcoproducts.com/store/item.asp?ITEM_ID=1489)



Accessible picnic table (1)

# PICNIC TABLE | ADA

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Accessible picnic table

# PICNIC TABLE | STANDARD

CHAPTER 2: SITE FURNISHINGS

02

## PURPOSE

Picnic tables shall be located in designated areas of parks.

## GENERAL INFORMATION

Tables shall be tip resistant.

Table design shall permit 'walk through' access.

The standard picnic tables is the Victor Stanley CM-565 or City approved equal.

## MATERIALS AND FINISH

Tables shall be constructed of galvanized steel or other durable metals designed for commercial and exterior use.

Metal finishing shall be a high-quality, permanently affixed powder coating done through a electrostatic process, or high performance thermoplastic finish.

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be imbedded or sealed to avoid corrosion and personal injury.

Frame legs shall be 2 3/8 inch minimum outside diameter, 11 gauge tubular steel welded into a single piece. Cross members shall be 1 7/8 inch minimum outside diameter tubular steel.

Frames shall be green. Tables in historic districts shall be black.

Table tops and seats shall be extruded, UV resistant, recycled high-density polyethylene. Color shall be neutral or wood tone.

## FEATURES

Picnic tables are available in multiple configurations; the standard rectangle with side benches is required.

Benches can be configured as an 8 feet long table with 6 feet long benches for compliance with ADA.

## INSTALLATION

Tables shall be surface mounted permanently with anchor bolts, or consistent with the manufacture's recommended in-ground method.

Picnic tables shall be accessible by hard surface paths.

The hard surface pad shall have a minimum 1% cross slope and provide a minimum of 3 feet-4 inches of clearance on all sides and a minimum of 5 feet on the ADA accessible side.

Tables shall be located in seasonal shade where possible.

A trash/recycling can shall be located within 15 feet, but 5 feet minimum from the picnic table.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Picnic tables are anticipated to require replacement after 15 years of normal and ordinary use.



Picnic table (1)

## IMAGE FOOTNOTES

(1) <http://www.victorstanley.com/products/?mode=prodDetail&id=479&catId=2>

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# RECEPTACLE | ASH/COAL

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Ash/coal receptacles shall be provided at each park grill for the safe and accessible disposal of ashes/ coals.

## GENERAL INFORMATION

Parks allowing the use of grills shall provide one ash/ coal receptacle per grill.

The standard receptacle size is 10 gallon. The top of the receptacle shall be 1 foot-6 inches minimum and 4 feet maximum vertical height.

Each receptacle shall include a lid.

Each lid and can shall be connected by a chain to prevent theft.

Each receptacle shall be clearly marked with red lettering indicating the specific use of the bin.

Related Standards: Grill.

## MATERIALS AND FINISH

The receptacle and lid shall be 25 gauge minimum galvanized steel, or other fire and heat retardant material.

Steel chains shall be  $\frac{3}{16}$  inch welded, hot dipped galvanized.

The receptacle, lids and chains shall be silver/gray in color.

Material shall be of high strength, suitable for heavy public use and exterior exposure.

## FEATURES

Heat-resistant metal scoops shall be provided at each receptacle. Scoops shall be commercial grade and include a chain or other method of securing to the receptacle.

## INSTALLATION

Ash/coal receptacles shall be secured to an in-ground mounted pole with a secure chain. Poles shall be 2  $\frac{1}{2}$  inches outside diameter with a galvanized finish. Poles shall be 3 feet-6 inches, and include a cap and welded handle to accommodate locked chains for the receptacle.

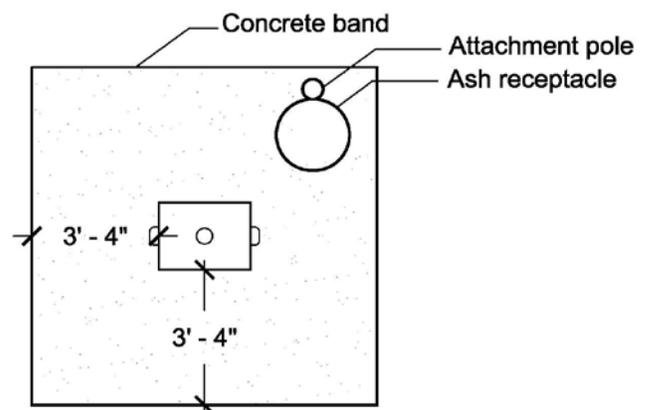
Poles shall be mounted in a 1 foot-6 inches minimum diameter and 2 feet-6 inches minimum vertical depth concrete footer. Top of footing shall be sloped to shed water.

Bins shall be placed on a hardscape pad and accessible by a hard surface path with a 3 feet-4 inches minimum horizontal width on the side adjacent to the solid surface path.

## LIFE CYCLE EXPECTATIONS

A 5 year minimum warranty is required.

Receptacles are anticipated to require replacement after 6 years of normal and ordinary use.



Receptacle location diagram

Not to scale

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# RECEPTACLE | RECYCLING

## PURPOSE

Recycling receptacles shall be located adjacent to activity centers, trail heads and other high-traffic areas within and around parks/open space.

## GENERAL INFORMATION

Recycling is mandated by the City of Alexandria.

The standard recycling receptacle is the Victor Stanley Ironsites model SD-42 (36 gallon) unit with side-door in powder-coated blue steel (RAL5010), or City approved equal.

The top band of recycling bins and lid shall be marked with "Recycling" in white lettering.

Corresponding plastic interior liners shall be used in all receptacles.

Related Standards: Receptacle | Ash/Coal, Receptacle | Trash.

## MATERIALS AND FINISH

Receptacles shall be constructed of sturdy, durable metal such as galvanized steel, ductile cast iron or other metals designed for commercial and exterior use.

Metal finishing shall be of high-quality, permanently affixed powder coating, done through a heat-finished process.

## FEATURES

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be imbedded or sealed.

Hinges, latches and moving parts shall be weather resistant and oiled at the time of purchase.

Receptacles shall contain a minimum of 70% post consumer recycled steel.

## INSTALLATION

Receptacles shall be affixed to hard surfaces consistent with manufacturer recommendations.

A hard surface of 3 feet-4 inches by 3 feet-4 inches minimum accessible area shall be provided adjacent to accessible paths.

Receptacles shall be no taller, or mounted higher, than 4 feet above adjacent grade at the tallest point of the unit.

Placement of the receptacles shall not inhibit the monitoring or emptying of the contents.

The manufacturer's recommendations shall be followed to ensure the receptacles are installed level.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Receptacles are anticipated to require replacement after 20 years of normal and ordinary use.



Recycling receptacle

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# RECEPTACLE | TRASH

CHAPTER 2: SITE FURNISHINGS

## PURPOSE

Trash receptacles shall be located adjacent to activity centers, trail heads and other high-traffic areas within and around parks/open space.

## GENERAL INFORMATION

Trash shall be contained in a durable metal, covered receptacle.

The City standard trash receptacles are Victor Stanley Ironsites model SD-42 (36 gallon) unit with side-door in powder-coated black steel (RAL9005), or City approved equal. The 'dome-top' style lid in black is required.

Corresponding plastic interior liners shall be used.

Recycling is mandated by the City of Alexandria. See "Recycling Receptacle" for appropriate container.

Related Standards: Receptacle | Ash/Coal, Receptacle | Recycling.

## MATERIALS AND FINISH

Receptacles shall be constructed of sturdy, durable metal such as galvanized steel, ductile cast iron or other metals designed for commercial and exterior use.

Metal finishing shall be of high-quality, permanently affixed powder coating, done through a heat-finished process.

Black is the required color for trash receptacles.

Metal products shall have smooth welds, joints and corners. Joint fasteners shall be imbedded or sealed.

Hinges, latches and moving parts shall be weather resistant and oiled at the time of purchase.

Receptacles shall contain a minimum of 70% post consumer recycled steel.

## INSTALLATION

Receptacles shall be affixed to hard surfaces consistent with manufacturer recommendations.

A hard surface of 3 feet-4 inches by 3 feet-4 inches minimum accessible area shall be provided adjacent to accessible paths.

Receptacles shall be no taller, or mounted higher, than 4 feet above adjacent grade at the tallest point of the unit.

Placement of the receptacles shall not inhibit the monitoring or emptying of the contents.

The manufacturer's recommendations shall be followed to ensure the receptacles are installed level.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Receptacles are anticipated to require replacement after 20 years of normal and ordinary use.



Trash receptacle

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# WHEEL STOP

## PURPOSE

Pre-fabricated wheel stops shall be installed at vehicular parking areas located within park facilities. Wheel stops shall be used to define edges of parking spaces and to prevent vehicle encroachment.

## GENERAL INFORMATION

The standard product is Barco Brand Premium Color Plastic Wheel Stop (WHLSTP) yellow color, 6 feet in length and 4 inches minimum vertical height, or City approved equal.

In historic districts or on historic properties, wheel stops shall be pre-fabricated concrete or gray in color.

One wheel stop shall be provided for each designated parking space. Wheel stop shall be located 3 feet minimum horizontal distance from the adjacent walkway/path.

## MATERIALS AND FINISH

Wheel stops shall be made of durable materials such as high density polyethylene, rubber/synthetic composites or precast concrete.

Wheel stops shall contain recycled materials.

## INSTALLATION

Install wheel stops consistent with manufacturer's recommendations.

Wheel stops shall be installed on asphalt or other hard surface.

When installed in parking areas of compacted stone or other loose material, wheel stops shall be mounted on solid leveling pads at finish grade, with rebar spikes secured into subgrade.

Stops shall be secured with a minimum of 3 rebar spikes sunk into pavement and subgrade, consistent with manufacturer recommendations.

Installation of wheel stops shall not impede access of wheelchairs or other mobility devices through parking lots or to pathways.

## LIFE CYCLE EXPECTATIONS

A 5 year minimum warranty is required.

Wheel stops are anticipated to require replacement after 10 years of normal and ordinary use.



Wheel stop

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